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### NOTICE OF ALLOWANCE AND FEE(S) DUE

86636 7590 01/26/2010 BRUNDIDGE & STANGER, P.C. 1700 DIAGONAL ROAD, SUITE 330 ALEXANDRIA. VA 22314 EXAMINER
COLBERT, ELLA
ART UNIT PAPER NUMBER
3666

DATE MAILED: 01/26/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,475	09/28/2001	Takuya Okamoto	ASA-724-02	3236

TITLE OF INVENTION: METHOD AND APPARATUS FOR SEARCHING AND DISPLAYING STRUCTURED DOCUMENT

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir d below or directed oth ions.	or trans ng the P nerwise i	mitting the ISSU atent, advance or in Block 1, by (a	E FEE and PUBLIC ders and notification () specifying a new c						
CURRENT CORRESPONDENCE ADDRESS (Nose: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fe(§) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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09/964,475	09/28/2001			Takuya Okamoto	,			ASA-724-02	3236	_
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APPLN, TYPE	SMALL ENTITY	188	UE FEE DUE	PUBLICATION FEE I	JUE		SPEE	TOTAL FEE(S) DUE	DATE DUE	_
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1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address for Change of Correspondence Address from PIONB/I/2) altached.  The Address from PIONB/I/2) altached.  The Address' indication (or "Fee Address" Indication form PIONB/I/2 altached.  The Address' indication for "Fee Address" Indication form PIONB/I/2 (Fee 0.362) or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PILASIN FOULT Unless an assigner is identified below, no assigner.			Correspondence ion form of a Customer	2. For printing on the patient front page, list (1) the names of up to 3 registered patient attorneys or agents OR, alternatively. (2) the name of a single firm thaving as a member a registered attorney or agent) and the names of up to 2 registered patient attorneys or agents. If no name is ilistic, no name will be printed. THE PATENT (print or type) that will appear on the patient. If an assignce is identified below, the document has been filled for TS aubstitute for filing an assignment.				l for		
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4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				A check is enclose Payment by credi	sed. it care ereby	i. Form PTO-2038	is atta	equired fee(s), any de		n).
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09/964,475	09/28/2001	Takuya Okamoto	ASA-724-02	3236
86636 7	590 01/26/2010		EXAM	INER
BRUNDIDGE &	STANGER, P.C.	COLBER	T, ELLA	
	ROAD, SUITE 330	ART UNIT	PAPER NUMBER	
ALEXANDRIA, Y	VA 22314	3696		

DATE MAILED: 01/26/2010

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1309 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1309 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
09/964,475	OKAMOTO ET AL.
Examiner	Art Unit
Fila Colbert	3696

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- N This communication is responsive to 01 October 2009.
- The allowed claim(s) is/are 34-41, 46, and 48.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. 

      Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) ceach sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

# Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_\_.
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other Initialed After Final (Attached).

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Art Unit: 3696

### DETAILED ACTION

 Claims 34-41, 46, and 48 are pending. Claims 34, 38, 40, 46, and 48 have been amended in this communication filed 10/01/09 entered as Response After Non-Final Action.

- The Claim objections have been overcome by Applicants' amendment to the claims and are hereby withdrawn.
- The 35 USC 112, Second Paragraph Rejections for claims 34, 40, and 46 have been overcome by Applicants' amendments and are hereby withdrawn.
- The 35 USC 101 Rejection for claim 48 has been overcome by Applicants' amendment to claim 48 and is hereby withdrawn.

# Allowable Subject Matter

Claims 34-41, 46, and 48 are allowed.

The following is an examiner's statement of reasons for allowance: The closest prior art (US 5,778,400) Tateno discloses an SGML-based document with tags where some tags may be omitted which is designated by the DTD (Document Type Definition). Tateno did not disclose removing predefined element tags from the original analyzed structured document and concatenating character strings of elements made adjacent in the original analyzed structured document by removal of the predefined element tags to generate a structured document for a full-text search including the concatenated content character strings omitting the removed predefined element tags and generating information for restoring the predefined element tags.

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Hesse et al. (US 5,185,698) discloses organizing a structured document hierarchically written in Standardized General Markup Language (SGML) with an element consisting of a begin tag associated with the content and may optionally include an end tag. Hesse et al. did not disclose removing predefined element tags from the original analyzed structured document and concatenating character strings of elements made adjacent in the original analyzed structured document by removal of the predefined element tags to generate a structured document for a full-text search including the concatenated content character strings omitting the removed predefined element tags and generating information for restoring the predefined element tags.

### Other Relevant Prior Art

Sato et al. (US 6,014,690); Chang (US 5,694,594); Kuga et al. (US 5,276,616); Shafer (US 5,583,764); R.W. Matzeni;, K. M. George; and G.E. Hedrick; "A model for studying ambiguity in SGML Element Declarations"; Stribling, Dee; Hunter, Tim; Olszewski, Len; Corrigan, Anne; Mullis, Randy; and Allen, Lloyd, "A Real World Conversion to SGML"; Yang, Yiming, "Using Corpus Statistics to Remove Redundant Words in Text Categorization"; Zheng, Min, "Text-Hypertext Mutual Conversion and Hypertext Interchange through SGML; Clarke, Charles L.A. and Cormack, Gordon V., "On the Use of Regular Expressions for Searching Text".

Steven R. Newcomb; "Multimedia Interchange Using SGML/HyTime, Part 1: Structures"; Peter Goldie; "Using SGML to create complex interactive documents for electronic publishing, commentary"; Donald D. Chamberlin, Helmut F. Hasselmeier; Allen W. Luniewski; Dieter P. Paris; Bradford W. Wade; and Mitch L. Zolliker; "Quill: An

Application/Control Number: 09/964,475

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Extensible System for Editing Documents of Mixed Type"; Jamie Haycox; "Standard Generalized Markup Language (SGML) as a basis for intelligent Data Management System".

An extensive search was performed and no better prior art was found.

For these reasons claims 34, 46, and 48 are deemed allowable over the prior art of record and claims 35-41 are allowed by dependency.

It appears that the instant invention is beyond the skill of one of ordinary art.

Accordingly the invention would NOT have been obvious because one of ordinary skill could not have been expected to achieve it. NOR would they have been able to predict the results, and as such, they would have not capability of expecting success.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 571-272-6741. The examiner can normally be reached on Flexible Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trammell James can be reached on 571-272-6712. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ella Colbert/ Primary Examiner, Art Unit 3696

January 11, 2010